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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,375	04/08/2004	Kyung Ku Kim	2080-3244	1606

7590 12/19/2006  
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EXAMINER
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FINEMAN, LEE A

ART UNIT	PAPER NUMBER
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2872

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	12/19/2006	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/821,375

Applicant(s)

KIM, KYUNG KU

Examiner

Lee Fineman

Art Unit

2872

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 November 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,3-8 and 16-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3-8 and 16-33 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn. Claims 1, 3-8, and 16-33 are pending.

It is also noted by the Examiner that the claim objections made in Office Action mailed 20 September 2005 have been withdrawn due to amendment by the Applicant.

#### *Claim Objections*

2. Claims 21, 27 and 31 are objected to because of the following informalities: These claims include the limitation "wherein the nonactive display area is positioned on **an outer** of the active display area" which is grammatically incorrect. For the purposes of examination it will be considered an outer area. Appropriate correction is required.

#### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 5-6, 8, 16-17, 20-24 and 27-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Saito et al., US 6,469,440 B1.

Regarding claim 1, Saito et al. disclose in fig. 1 a front filter (1) of a plasma display panel (column 1, lines 8-14), the front filter comprising: a frame adhesive (4D and 6) having a

Art Unit: 2872

transparent adhesive (4D) formed at an active display area of the plasma display panel and a black adhesive (6, paint is an adhesive in at least so far as it adheres on it own to what it is painted on) formed at a nonactive display area surrounding the active display area (see fig. 1, column 10, lines 22-25 and column 16, lines 50-52).

Regarding claims 5, 16, 17 and 20, Saito et al. further disclose a front filter (1), attached to an upper glass substrate of a plasma display panel (column 5, lines 34-51), having a base film (10, column 9, line 64-column 10, line 7), a near infrared shielding layer (5A, 5B), an electromagnetic shielding layer 3, and an antireflection layer (8), comprising: a plurality of adhesives (4A, 4B, 4C, 4D, 6) formed on the upper glass substrate (column 5, lines 34-51) or between the near infrared shielding layer, the electromagnetic shielding layer and the antireflection layer, wherein one of the plurality of adhesives is a frame adhesive (6) having a black adhesive (6, paint is an adhesive in at least so far as it adheres on it own to what it is painted on) for defining an active display area of the plasma display panel (see fig. 1, column 10, lines 22-25 and column 16, lines 50-52); wherein the frame adhesive (6) is formed on the electromagnetic shielding layer (fig. 1); and wherein a transparent adhesive (4D) is formed at an area that is overlapped with the active display area (fig. 1).

Regarding claim 6, Saito et al. further disclose wherein the frame adhesive is composed of a transparent adhesive (4A) formed at the active display area and the black adhesive (6) is formed at a nonactive display area surrounding the active display area (see fig. 1, column 10, lines 22-25 and column 16, lines 50-52).

Regarding claim 8, Saito et al. further disclose a fabrication method of a front filter of a plasma display panel comprising: preparing a base film (10, column 9, line 64-column 10, line

Art Unit: 2872

7); forming a black adhesive (6) at a nonactive display area of the plasma display panel (see fig. 1, column 10, lines 22-25 and column 16, lines 50-52), wherein the nonactive display area is positioned on the base film (fig. 1); and forming a transparent adhesive (4A) at an active display area of the plasma display panel, wherein the active display area is positioned on the base film (fig. 1).

Regarding claim 24, Saito et al. further disclose a fabrication method of a front filter of a plasma display panel, the method comprising: preparing a base film (5B, column 16, lines 52-55); forming a transparent adhesive (4D) at an active display area of the plasma display panel (fig. 1), wherein the active display area is positioned on the base film (fig. 1); and forming a black adhesive (6) at a nonactive display area of the plasma display panel after forming the transparent adhesive (column 16, lines 50-55, in so far as the adhesive films are "first prepared"), wherein the nonactive display area is positioned on the base film (fig. 1).

Regarding claim 30, Saito et al. further disclose a fabrication method of a front filter of a plasma display panel, the method comprising: preparing a base film (2B); forming a transparent adhesive (4D) on a whole screen area of the plasma display panel (fig. 1); and forming a black adhesive (6) on a nonactive display area of the plasma display panel (fig. 1), wherein the black adhesive is positioned on the transparent adhesive (fig 1).

Regarding claims 21, 27 and 31, Saito et al. further disclose wherein the nonactive display area is positioned on an outer area of the active display area (fig. 1).

Regarding claims 22, 23, 28, 29, 32 and 33, Saito et al. further disclose wherein the black and transparent adhesives are formed by one of a printing method, a laminating method and a pressing method (pressing method, see column 16, lines 48-61).

*Claim Rejections - 35 USC § 103*

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 3, 4 and 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito et al.

Saito et al. disclose the claimed invention except for explicitly stating that the black adhesive (6) is being formed by mixing the transparent adhesive with a black material and that the black adhesive is 0.05 ~50% black material. However, Saito et al. does teach creating a black adhesive being formed by mixing the transparent adhesive with a black material (column 16, lines 17-23). It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the black adhesive (6) of Saito et al. from a transparent adhesive with a black material as further suggested by Saito et al. to simplify manufacture and inventories by using the same materials (i.e. transparent adhesive) in both parts of the frame adhesive. Further, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the black material 0.05 ~50% of the mixture, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering an optimum value or working ranges involves only routine skill in the art. One would have been

Art Unit: 2872

motivated to make the black material 0.05 ~50% of the mixture for the purpose of supplying the correct opacity to the frame. *In re Aller*, 220 F.2d 454, 456 105 USPQ 233, 235.

7. Claims 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito et al. in view of Shimamura et al., US 6,808,773.

Saito et al. disclose the claimed invention except for wherein the steps for fabricating the transparent and black adhesive include using screen masks. Shimamura et al. teach that screen masks are used to form very accurate, specific patterns in fabricating elements of front filters for plasma display panels as demonstrated by using a screen mask to form the copper foil of the electromagnetic shielding layer shield (see column 7, lines 3-8). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use screen masks to form the transparent and black adhesive to provide very accurate, specific pattern shapes.

#### ***Response to Arguments***

8. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

*Conclusion*

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lee Fineman whose telephone number is (571) 272-2313. The examiner can normally be reached on Monday - Friday 7:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

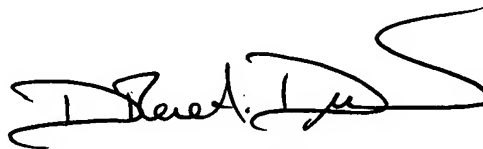


Art Unit: 2872

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



LAF  
13 December 2006



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**SUPERVISORY PATENT EXAMINER**